

CITY OF WEST LAFAYETTE

Green Meadows Lift Station and Force Main

Contract Change Order No. 1 - FINAL

This Change Order No. 1 provides for modifications to the Contract dated February 5, 2008 between the City of West Lafayette and Infrastructure Systems, Inc. This final change order will result in a net change in Contract Price of **-\$72,861.62** as summarized below:

Contract Changes

Item No. 1: Adjustment of unit price contract items based upon the final installed quantities.

Contract Item Description	Bid Qty		Installed Qty		Unit Price	Contract Adjustment
No. 1 – Lift Station	1	LS	1	LS	\$780,150	\$0
No. 2 – 12" Force Main	3,842	LF	3,815	LF	\$38	-\$1,026
No. 3 – 12" Force Main Railroad Crossing	158	LF	170	EA	\$190	\$2,280
No. 4 – Work Allowance	1	LS	0	LS	\$20,000	<u>-\$20,000</u>
					Total Credit	-\$18,746

Deduct: **(\$18,746.00)**

Item No. 2: Contractor provided a credit for the material cost difference between the specified and actual air release valve installed. Due to height limitations, a shorter body valve was needed to fit inside the precast manhole.

Deduct: **(\$717.15)**

Item No. 3: This work includes purchase and delivery of ten crab apple trees as restitution for plantings damaged by pipeline construction.

Cost: **\$1,496.21**

Item No. 4: This includes the additional work to install a 12" plug valve and valve box to isolate the force main to enhance maintenance of lift station flow meter.

Cost: **\$4,451.21**

Item No. 5: This includes the additional work to provide a new 6-inch thick reinforced concrete access drive in lieu of the existing 4-inch thick unreinforced concrete drive. Additionally, a gravel access road was also constructed to improve access to the existing sanitary sewer line north of the lift station.

Cost: **\$15,654.11**

Changes are hereby made to the Contract Price as follows:

<u>Item</u>	<u>Description</u>	<u>Decrease</u>	<u>Increase</u>
No. 1	Adjustment for final quantities	(\$18,746.00)	
No. 2	Air Release Valve Substitution	(\$ 717.15)	
No. 3	Additional Site Restoration		\$ 1,496.21
No. 4	Valve & Valve Box		\$ 4,451.21
No. 5	Access Drive Upgrade		\$15,654.11
Subtotal		(\$19,463.15)	\$21,601.53
Total Increase			\$ 2,138.38

Liquidated Damages

The original Contract substantial completion date was October 3, 2008. Contractor's actual substantial completion date was on April 9, 2009 or 188 days beyond the original Contract substantial completion date. The Construction Agreement between the City of West Lafayette and Infrastructure Systems, Inc. stipulates that liquidated damages for delay be assessed at one thousand dollars (\$1,000) for each calendar day that expires beyond the substantial completion date. The City of West Lafayette and Infrastructure Systems, Inc. reached a mutual agreement that liquidated damages be assessed at \$75,000.

Deduct: **(\$75,000.00)**

Change Order Summary

Original Contract Price	\$976,166.00
Contract Changes	+\$2,138.38
Liquidated Damages	-\$75,000.00
Final Total Contract Price	\$903,304.38
Original Substantial Completion	October 3, 2008
Actual Substantial Completion	April 9, 2009

Prepared By:

Joseph M. Teusch, Project Manager
Greeley and Hansen

Joseph M. Teusch 12/29/09
Signature Date

Accepted By:

Jonathan R. Stalker, Project Manager
Infrastructure Systems, Inc.

Jonathan R. Stalker 01/06/10
Signature Date

Recommended By:

David S. Henderson, Utility Director
City of West Lafayette

David S. Henderson 1/21/2010
Signature Date

Authorized By:

John R. Dennis, Mayor
City of West Lafayette

Signature Date

Authorized By:

Bradley W. Marley, Member
Board of Public Works & Safety

Signature Date

Authorized By:

Sana G. Booker, Member
Board of Public Works & Safety

Signature Date

Attest:

Judith C. Rhodes, IAMC/CMC/CPFA
City of West Lafayette Clerk-Treasurer

Signature Date

Green Meadows Lift Station and Force Main

Contract Change Order No. 1 - FINAL

APPROVED:

DATE: _____

CITY OF WEST LAFAYETTE
BOARD OF PUBLIC WORKS AND SAFETY

John R. Dennis, Mayor

Sana G. Booker, Member

Bradley W. Marley, Member

Jonathan C. Speaker, Member

Elizabeth M. Stull, Member

Attest:

Clerk-Treasurer Judith C. Rhodes

Teusch, Joseph

From: David S. Henderson [dhenderson@westlafayette.in.gov]
Sent: Wednesday, April 23, 2008 1:59 PM
To: Teusch, Joseph
Subject: RE: Green Meadows LS

Joe,

I agree. Let's proceed with the Val-Matic.

Thanks for your help.
Dave

David S. Henderson
Utility Director
City of West Lafayette IN. WWTU
Email: dhenderson@westlafayette.in.gov
Phone: 765-775-5145
Fax: 765-775-5149

Working to keep West Lafayette a great community.



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From: Teusch, Joseph [mailto:jteusch@greeley-hansen.com]
Sent: Wednesday, April 23, 2008 1:22 PM
To: dhenderson@westlafayette.in.gov
Cc: vvanallen@westlafayette.in.gov
Subject: FW: Green Meadows LS

Dave,

See response below from Mr. Downey's secretary. In my opinion, I would choose the Val-Matic valve.
Let me know if you agree.

Thanks.

Joe

Joseph Teusch, P.E.
Greeley and Hansen
6640 Intech Boulevard, Suite 180
Indianapolis, Indiana 46278
P: (317) 924-3380
F: (317) 925-3811

4/23/2008

From: David Downey [mailto:ddowney@westlafayette.in.gov]
Sent: Wednesday, April 23, 2008 12:42 PM
To: Teusch, Joseph
Subject: RE: Green Meadows LS

Joe:

David does not want to raise the manhole so pick the best shorter valve; we have to keep the neighbors happy.

Donna

From: Teusch, Joseph [mailto:jteusch@greeley-hansen.com]
Sent: Wednesday, April 23, 2008 12:04 PM
To: ddowney@city.west-lafayette.in.us
Cc: dhenderson@westlafayette.in.gov; vvanallen@westlafayette.in.gov; Short, TJ
Subject: Green Meadows LS

David:

As you are aware, the air release valve structure was placed closer to Gala Drive to address complaints from homeowners. The change in structure location combined with the higher elevation of the force main at this new location has created a challenge. It appears that the specified air release valve will not fit inside the manhole (valve is too tall). There are a couple of options to consider:

Option 1. Contractor could raise the manhole elevation by adding a short barrel section and mounding dirt around the structure. This would allow us to use the specified valve but it may not be aesthetically pleasing.

Option 2. Use a shorter-bodied air release valve. Two options are attached for your review:

<u>Manufacturer</u> <u>Cost</u>	<u>Valve Body Material</u>	<u>Inner-Metal Materials</u>	<u>Valve Height</u>
A.R.I. \$2,978 (specified manuf.)	Stainless Steel	316 Stainless Steel	25"
<i>Alternative - 1</i> Golden-Anderson \$689 (since 1956)	Cast Iron	304 stainless steel	9-3/8"
<i>Alternative - 2</i> Val-Matic \$1,219 (since 1966)	Cast Iron	316 stainless steel	14-15/16"

Cost Summary

If the City decides to go with Option 2 (a shorter valve) then the specified unit could be returned to the supplier and the City would receive a credit of \$1,936 (this includes a 35% restocking fee). Note this credit does exceed the cost of either valve alternative. The Val-Matic valve has inner metal parts constructed of type 316 stainless steel which is consistent with the specified valve. We did not find a shorter body valve manufactured by ARI that would work for this application.

Please let me know how the City would like to proceed.

4/23/2008

Teusch, Joseph

From: scott wallace [scottw@infrastructuresystems.com]
 Sent: Wednesday, April 23, 2008 8:43 AM
 To: Teusch, Joseph
 Subject: West Lafayette - Air Release Valve
 Attachments: Air Release Valve.pdf

Joe,

Utility Pipe Sales does have two air release valves that would fit at West Lafayette Green Meadows.

Material Cost:

1. Kinetic Compact Combination Air Valve with 2" NPT Inlet and outlet is \$688.90
2. Val Matic Combination Air Valve with 2" Inlet and 1" outlet is \$1,218.82

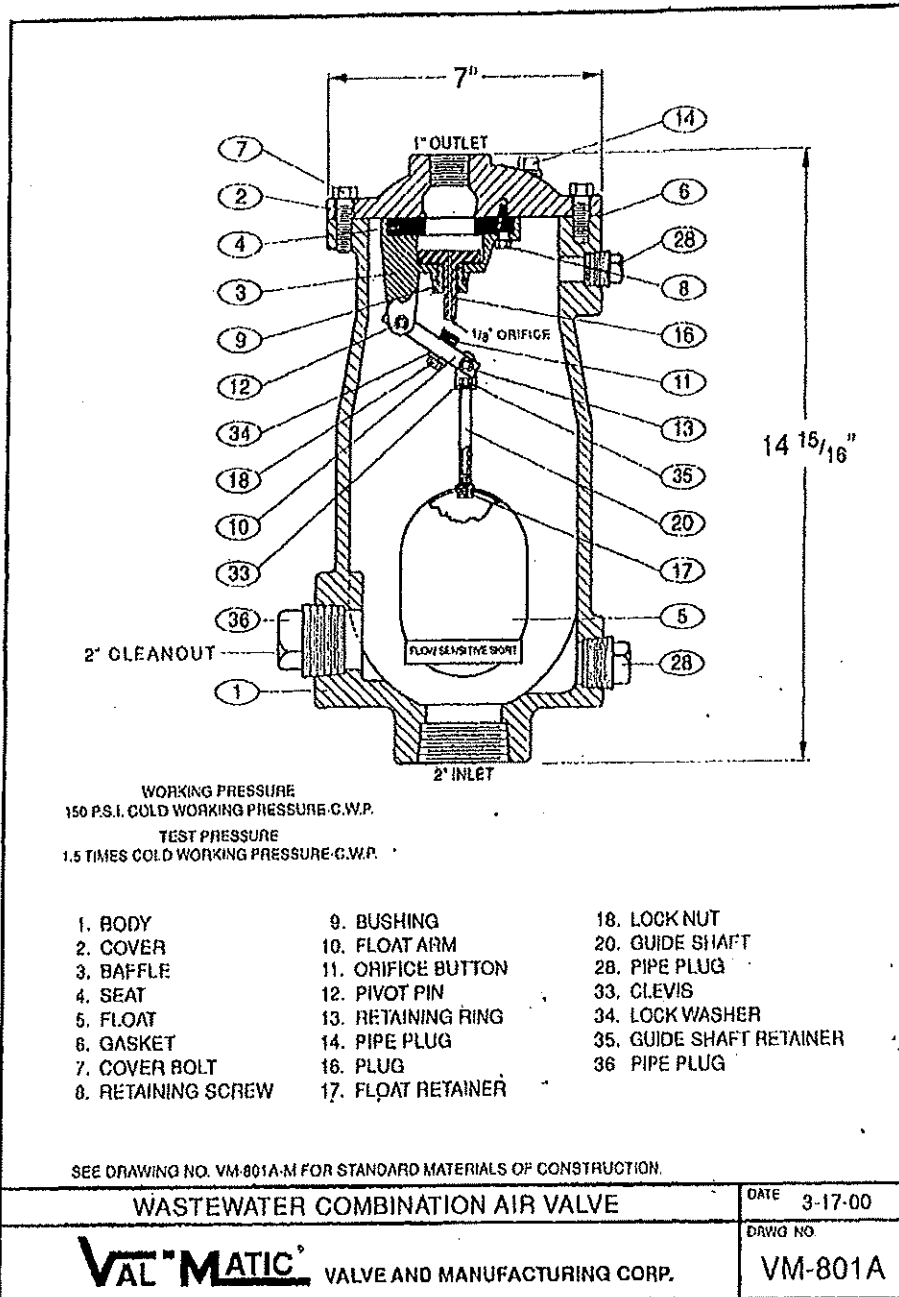
The deduct for the air release valve we have onsite is \$1,935.97. This price does include the 35% restocking fee. I have included the cut sheet for each air release valve please let me know how the City would like to proceed.

Thanks,

Scott Wallace
 Project Manager
 Infrastructure Systems, Inc.
 Phone: (812) 865-3309
 Fax: (812) 865-3009

*Result would be
 a credit to the City*

Existing Valve =	\$ 1,935.97
Proposed Valve =	\$ 1,218.82
	<hr/>
	\$ 717.15
	<hr/>



WASTEWATER COMBINATION AIR VALVE

SERIES NO. 801A

STANDARD MATERIALS OF CONSTRUCTION

<u>PART NO.</u>	<u>PART NAME</u>	<u>MATERIAL</u>
1	BODY	CAST IRON ASTM A126, CLASS B
2	COVER	CAST IRON ASTM A126, CLASS B
3	BAFFLE (1"-2") BAFFLE (3"-4")	CAST IRON ASTM A126, CLASS B DUCTILE IRON ASTM A536, GRADE 65-45-12
4	SEAT	BUNA-N
6	FLOAT	STAINLESS STEEL T316, ASTM A240
6	GASKET	COMPRESSED NON-ASBESTOS FIBER
7	COVER BOLT	ALLOY STEEL SAE, GRADE 5
8	RETAINING SCREW	STAINLESS STEEL T316, ASTM F593
9	GUIDE BUSHING	STAINLESS STEEL T316, ASTM A582
10	FLOAT ARM	STAINLESS STEEL T316, ASTM A582
11	ORIFICE BUTTON	STAINLESS STEEL & BUNA-N
12	PIVOT PIN	STAINLESS STEEL T316, ASTM A276
13	RETAINING RING	STAINLESS STEEL PH 15-7 MO
14	PIPE PLUG	STEEL
16	PLUG	STAINLESS STEEL T316, ASTM A276
17	FLOAT RETAINER	STAINLESS STEEL T316, ASTM F880
18	LOCK NUT	STAINLESS STEEL T316, ASTM A594
20	GUIDE SHAFT	STAINLESS STEEL T316, ASTM A582
28	PIPE PLUG	STEEL
33	CLEVIS	STAINLESS STEEL T316, ASTM A240
34	LOCK WASHER	STAINLESS STEEL T316, ASTM A240
35	GUIDE SHAFT RETAINER	STAINLESS STEEL T316, ASTM A593
36	PIPE PLUG	STEEL

NOTE: ALL SPECIFICATIONS AS
LAST REVISED.

Revised 8-12-03

MATERIALS OF CONSTRUCTION		DATE 3/17/00
 VALVE AND MANUFACTURING CORP.		DRWG NO. VM-801A-M

KINETIC COMPACT COMBINATION AIR VALVE

2" NPT Inlet and Outlet



FIG. 945

COMBINETIC

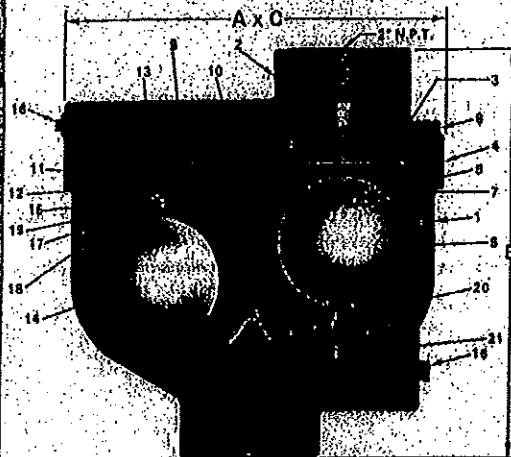


FIG. 945

GENERAL DIMENSIONS

VALVE SIZE	A LENGTH	B HEIGHT	C WIDTH	WEIGHT (LBS)
2"	9"	9 1/2"	4 1/2"	30

ENGINEERING SPECIFICATION

The Combination Air Valve shall consist of a KINETIC Air & Vacuum Valve, and an Air Release Valve contained in a single body housing. The valve shall be designed to exhaust large amounts of air during filling; to release small amounts of accumulated air during operation and to admit large amounts of air upon impending vacuum during draining.

The inlet shall be the nominal size of the valve and the outlet shall be the same size as the inlet. Body and cover shall be of cast iron conforming ASTM A128, Class B. The Air & Vacuum portion of the valve shall be designed to exhaust air at up to sonic velocity without blowing shut. The floats shall be spherical and shall be capable of withstanding a test pressure of 1000 psi. The Air Release portion shall have a stainless steel leverage mechanism and float. The small orifice shall be stainless steel and have a rubber seat.

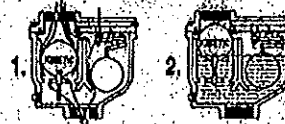
Kinetic Compact Combination Air Valves shall be as manufactured by GA Industries, Inc., Mars, PA, their Figure 945.

PARTS LIST

1. BODY - Cast Iron, A128 Class B
2. COVER - Cast Iron, A128 Class B
3. SEAT - Buna-N
4. COVER GASKET - Composition
5. FLOAT BALL (Air/Vacuum) - 304 Stainless Steel
6. SEAT FOLLOWER - 304 Stainless Steel
7. SEAT SCREWS - 18-8 Stainless Steel
8. COVER BOLTS - Steel Grade 5
9. ORIFICE - 303 Stainless Steel
10. ORIFICE BUTTON - Buna-N
11. LEVERAGE BRACKET - 302/304 Stainless Steel
12. FLOAT ARM - 302/304 Stainless Steel
13. LOCKING SCREW - 18-8 Stainless Steel
14. FLOAT BALL (Air Release) - 304 Stainless Steel
15. PIVOT LINK - 302/304 Stainless Steel
16. PIPE PLUG - Steel (Commercial)
17. FLOAT SCREW 18-8 Stainless Steel
18. LOCKWASHER - 18-8 Stainless Steel
19. COILED SPRING PIN - 302 Stainless Steel
20. CUSHION - Buna-N
21. BALL GUIDE - UHMW-PE

ENGINEERING DATA

Kinetic Operating Principle of the Combination Valve



1. During the exhausting sequence, the air flowing around the large orifice body ball produces a resultant downward force which maintains the ball in the open position.
2. The buoyant force of the balls will seat both orifices when water reaches the balls.

Pressure Rating:

NPT Inlet Body rated to 300 psi WOG; tested to 450 psi.

Floats tested to 1000 psi.

Working Pressure:

10-150 psi with 1/8" orifice (Standard Fig. 945)
10-300 psi with 3/32" orifice (Optional Fig. 945H)
Consult factory if operating pressure is less than 10 psi.

Small Orifice (Air Release) Maximum Venting Rate:

Fig. 945
@ 150 psi with 1/8" orifice = 28.1 SCFM
Fig. 945-H
@ 300 psi with 3/32" orifice = 28 SCFM

For Sizing and Locating see pages 16-17, 30-37.
Connections:
Inlet - NPT, Standard, CL 125 or 250 FLG Optional
Outlet - NPT, Standard, CL 125 FLG Optional

Options:

For Optional Outlet Cowl specify 945-C.
For Optional Throttling Device specify 945-P,
see pages 41 and 35.
For Optional CL 125 FLG Outlet specify 945-J.

A Product Of GA Industries

Item No.3

Bennett's Nursery, Lafayette, IN - Tree Restoration

MATERIALS & EXPENSES

Ten (10) 1" Crab Apple Trees	10 EA	\$1,150.52
Sales Tax	1 LS	\$ 80.54
Delivery	1 LS	\$ 70.00
		<hr/>
		\$1,301.06
	ISI OVERHEAD & PROFIT	\$ 195.16
	TOTAL:	<hr/>
		\$1,496.21

Item No.4

File: 07916-16.150

Teusch, Joseph

From: Teusch, Joseph
Sent: Friday, October 03, 2008 3:00 PM
To: scottw@infrastructuresystems.com
Cc: Short, TJ; mark@blanderson.com
Subject: FW: Green Meadows Project - Isolation Valve Change Order

Scott:

Please proceed with the purchase of a 12" plug valve and valve box for the not-to-exceed price of \$4,451.21.

Thanks.

Joe

Joseph Teusch, P.E.
Greeley and Hansen
6640 Intech Boulevard, Suite 180
Indianapolis, Indiana 46278
P: (317) 924-3380
F: (317) 925-3811

From: David Henderson [mailto:dhenderson@westlafayette.in.gov]
Sent: Friday, October 03, 2008 12:31 PM
To: Teusch, Joseph
Subject: Re: Green Meadows Project - Isolation Valve Change Order

Joe,

Sounds good with Option #2.

Thanks,
Dave

David S. Henderson
Utility Director
City of West Lafayette IN. WWTU
Email: dhenderson@westlafayette.in.gov
Phone: 765-775-5145
Fax: 765-775-5149

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On 10/3/08 12:19 PM, "Teusch, Joseph" <jteusch@greeley-hansen.com> wrote:

Dave,

ISI sent two proposals for the force main isolation valve:

Option #1 -	12" plug valve and valve vault	=	\$11,430.83
Option #2 -	12" plug valve and valve box	=	\$ 4,451.21

Option #1 allows better access to the valve by placing it in a vault and option #2 is to bury the valve and provide a valve box with extension stem for operation. As you know, buried valves w/ valve boxes are used on water and wastewater systems all over the world. Given the limited 'potential' use of this valve (and its relatively shallow depth of bury) we recommend that the WWTU proceed with option #2.

Please advise if you wish to proceed with this change and confirm the option.

Thanks.

Joe

Joseph Teusch, P.E.
Greeley and Hansen
6640 Intech Boulevard, Suite 180
Indianapolis, Indiana 46278
P: (317) 924-3380
F: (317) 925-3811

From: David Henderson [<mailto:dhenderson@westlafayette.in.gov>]
Sent: Friday, September 05, 2008 3:44 PM
To: Teusch, Joseph
Subject: Re: Green Meadows Project - Isolation Valve
Importance: High

Joe,

We definitely want the isolation valve.

My maintenance staff will be forever grateful.

Thanks,
Dave

12" Plug Valve

MATERIALS & EXPENSES

Plug Valve	1 EA	2,516.00	2,516.00
Valve Box	1 EA	72.00	72.00
Granular	1 TN	13.25	13.25
Misc Materials/Piping	1 EA	175.00	175.00

TOTAL MATERIAL & EXPENSES

\$2,776.25

HOURLY LABOR RATES

	HR. RATE	FRINGES	BURDEN	TOTAL
SUPERINTENDENT/OPERATOR	26.68	12.10	13.57	52.35
OPERATOR	25.68	12.10	13.22	51.00
LABORER	21.27	9.03	10.61	40.91
TOTAL HOURLY RATE				\$ 144.26

DAILY LABOR RATES - BASED ON 10 HOURS (2 HOURS OVERTIME)

SUPERINTENDENT/OPERATOR	52.35	575.85
OPERATOR	51.00	561.00
LABORER	40.91	450.01
TOTAL DAILY RATE		1,586.86

<u>DAILY RATE</u>	<u># OF DAYS</u>	<u>TOTAL LABOR</u>
1,586.86	0.25	<u>396.72</u>

HOURLY EQUIPMENT RATES

		<u>HOURS</u>	<u>TOTAL</u>
330 CAT EXCAVATOR	212.00	10.00	2,120.00
CASE 580 BACKHOE	30.50	10.00	305.00
WORK TRUCK	13.13	10.00	131.30
PICKUP TRUCK	13.13	10.00	131.30
2" SUBMERSIBLE PUMP	2.30	10.00	23.00
STORAGE CONTAINER	2.00	10.00	20.00
MISC HAND TOOLS	6.00	10.00	60.00

TOTAL DAILY RATE \$2,790.60

<u>DAILY RATE</u>	<u># OF DAYS</u>	<u>TOTAL EQUIPMENT</u>
2,790.60	0.25	<u>697.65</u>

TOTAL MATERIALS & EXPENSES
TOTAL LABOR
TOTAL EQUIPMENT

SUBTOTAL \$ 3,870.62
OVERHEAD & PROFIT \$ 580.59
TOTAL: \$ 4,451.21



Item No. 5

Teusch, Joseph

From: Jon Stalker [jsi2@blueriver.net]
Sent: Monday, July 20, 2009 4:57 PM
To: Teusch, Joseph
Subject: Green Meadows Concrete/Gravel Drive
Attachments: Concrete Drive revised 7-20-09.xls

Joe,

Attached is the revised breakdown for the changes in the concrete/gravel drive. I believe the net is a \$15,654.11 adder if you agree with all my calculations. Please let me know if you have any questions or need additional information.

Jonathan R. Stalker
Project Manager
Infrastructure Systems, Inc.

Summary

NEW 6" Drive - Adder	=	\$ 21,962.69
Additional Subgrade	=	\$ 1,212.33
Additional Gravel Access	=	\$ 1,669.00
EX. 4" Drive - Credit	=	<u>- \$ 9,189.91</u>
		\$ 15,654.11

6" Concrete Drive

MATERIALS & EXPENSES

Concrete	40 CY	86.50	3,460.00
Granular #2	80 TN	15.50	1,240.00
Granular #53	55 TN	13.50	742.50
Reinforcing Steel	1 LS	787.00	787.00
Misc Materials	1 LS	150.00	150.00
Misc Form Materials	1 LS	200.00	200.00

TOTAL MATERIAL & EXPENSES

\$6,579.50

HOURLY LABOR RATES

	HR. RATE	FRINGES	BURDEN	TOTAL
OPERATOR	25.68	12.10	13.22	51.00
LABORER	21.27	9.03	10.61	40.91
LABORER	21.27	9.03	10.61	40.91
TOTAL HOURLY RATE				\$ 132.81

DAILY LABOR RATES - BASED ON 10 HOURS (2 HOURS OVERTIME)

OPERATOR	51.00	561.00
LABORER	40.91	450.01
LABORER	40.91	450.01
TOTAL DAILY RATE		1,461.02

<u>DAILY RATE</u>	<u># OF DAYS</u>	<u>TOTAL LABOR</u>
1,461.02	5.50	<u>8,035.61</u>

DAILY EQUIPMENT RATES

	<u>TOTAL</u>
CASE 580 BACKHOE	433.07
WORK TRUCK	131.00
PICKUP TRUCK	131.00
CARGO TRAILER	60.00
MISC HAND TOOLS	60.00

TOTAL DAILY RATE \$ 815.07

<u>DAILY RATE</u>	<u># OF DAYS</u>	<u>TOTAL EQUIPMENT</u>
815.07	5.50	<u>4,482.89</u>

TOTAL MATERIALS & EXPENSES		\$ 6,579.50
TOTAL LABOR		\$ 8,035.61
TOTAL EQUIPMENT		\$ 4,482.89
	SUBTOTAL	\$ 19,098.00
	OVERHEAD & PROFIT	<u>\$ 2,864.70</u>
	TOTAL:	\$ 21,962.69

LABOR & EQUIPMENT TO EXCAVATE & PLACE SUBGRADE

HOURLY LABOR RATES

	HR. RATE	FRINGES	BURDEN
OPERATOR	25.68	12.10	13.22
TOTAL HOURLY RATE			

DAILY LABOR RATES - BASED ON 8 HOURS

		<u>TOTAL</u>
OPERATOR	51.00	408.00
TOTAL LABOR RATE		\$ 408.00

DAILY EQUIPMENT RATES

	<u>DAYS</u>	<u>TOTAL</u>
CAT 277	1.00	404.90
PICKUP TRUCK	1.00	131.30
TRAILER	1.00	50.00
MISC HAND TOOLS	1.00	60.00
TOTAL EQUIPMENT RATE		\$ 646.20

TOTAL LABOR	\$ 408.00
TOTAL EQUIPMENT	\$ 646.20
SUBTOTAL	\$ 1,054.20
OVERHEAD & PROFIT	\$ 158.13
TOTAL:	\$ 1,212.33 ←

AREA D GRAVEL

MATERIALS & EXPENSES

Granular #53	45 TN	13.50	607.50
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TOTAL MATERIAL & EXPENSES

\$ 607.50

HOURLY LABOR RATES

	HR. RATE	FRINGES	BURDEN	TOTAL
OPERATOR	25.68	12.10	13.22	51.00
TOTAL HOURLY RATE				\$ 51.00

DAILY LABOR RATES - BASED ON 10 HOURS (2 HOURS OVERTIME)

OPERATOR	51.00	561.00
TOTAL DAILY RATE		561.00

<u>DAILY RATE</u>	<u># OF DAYS</u>	<u>TOTAL LABOR</u>
561.00	0.75	<u>420.75</u>

DAILY EQUIPMENT RATES

CASE 580 BACKHOE	<u>TOTAL</u>
WORK TRUCK	433.07
	131.00

TOTAL DAILY RATE \$ 564.07

<u>DAILY RATE</u>	<u># OF DAYS</u>	<u>TOTAL EQUIPMENT</u>
564.07	0.75	<u>423.05</u>

TOTAL MATERIALS & EXPENSES
TOTAL LABOR
TOTAL EQUIPMENT

SUBTOTAL
OVERHEAD & PROFIT
TOTAL:

\$ 607.50
\$ 420.75
\$ 423.05
\$1,451.30
\$ 217.70
\$1,669.00 ←

4" Concrete Drive

MATERIALS & EXPENSES

Concrete	24 CY	86.50	2,076.00
Misc Materials	1 LS	125.00	125.00
Misc Form Materials	1 LS	100.00	100.00

TOTAL MATERIAL & EXPENSES

\$2,301.00

HOURLY LABOR RATES

	HR. RATE	FRINGES	BURDEN	TOTAL
OPERATOR	25.68	12.10	13.22	51.00
LABORER	21.27	9.03	10.61	40.91
LABORER	21.27	9.03	10.61	40.91
TOTAL HOURLY RATE				\$ 132.81

DAILY LABOR RATES - BASED ON 10 HOURS (2 HOURS OVERTIME)

OPERATOR	51.00	561.00
LABORER	40.91	450.01
LABORER	40.91	450.01
TOTAL DAILY RATE		1,461.02

<u>DAILY RATE</u>	<u># OF DAYS</u>	<u>TOTAL LABOR</u>
1,461.02	2.50	<u>3,652.55</u>

DAILY EQUIPMENT RATES

	<u>TOTAL</u>
CASE 580 BACKHOE	433.07
WORK TRUCK	131.00
PICKUP TRUCK	131.00
CARGO TRAILER	60.00
MISC HAND TOOLS	60.00

TOTAL DAILY RATE \$ 815.07

<u>DAILY RATE</u>	<u># OF DAYS</u>	<u>TOTAL EQUIPMENT</u>
815.07	2.50	<u>2,037.68</u>

TOTAL MATERIALS & EXPENSES
TOTAL LABOR
TOTAL EQUIPMENT

\$ 2,301.00
\$ 3,652.55
\$ 2,037.68

SUBTOTAL \$ 7,991.23
OVERHEAD & PROFIT \$ 1,198.68

TOTAL:

\$ 9,189.91 ← deduct